



<b><u>PROGRAM</u></b>	: OPTOMETRY/NURSING/BSc
<b><u>SUBJECT</u></b>	: HUMAN ANATOMY
<b><u>CODES</u></b>	: HAN01A1/HAN1A10/HAN1A20/ANASCA2
<b><u>DATE</u></b>	: JUNE EXAMINATION 07 JUNE 2017
<b><u>DURATION</u></b>	: 180 Minutes
<b><u>WEIGHT</u></b>	: 50: 50
<b><u>TOTAL MARKS</u></b>	: 100
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<b><u>EXAMINER</u></b>	: DR EE BRUWER
<b><u>MODERATOR</u></b>	: MR P NKOMOZEPI
<b><u>NUMBER OF PAGES</u></b>	: 4 PAGES
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<b><u>INSTRUCTIONS</u></b>	: QUESTION PAPER MUST BE HANDED IN.
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<b><u>REQUIREMENTS</u></b>	: 2 X EXAMINATION SCRIPTS.
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**INSTRUCTIONS TO CANDIDATES:**

1. THIS PAPER CONSISTS OF TWO SECTIONS.
  2. ALL QUESTIONS MUST BE ANSWERED IN THE EXAMINATION SCRIPTS PROVIDED.
  3. ANSWER EACH SECTION IN A SEPARATE EXAMINATION SCRIPT.
  4. THIS QUESTION PAPER MUST BE RETURNED WITH ALL YOUR EXAMINATION ANSWER SCRIPTS.
  5. MARK ALLOCATION: ½ MARK PER FACT UNLESS INDICATED OTHERWISE.
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**SECTION A**

**QUESTION 1**

Briefly describe the osteology of the structures/bones:

- |                                   |              |
|-----------------------------------|--------------|
| 1.1 The fossae of the Scapula.    | (5½)         |
| 1.2 A typical cervical Vertebrae. | (3)          |
| 1.3 The clavicle.                 | (3)          |
|                                   | <b>[11½]</b> |

**QUESTION 2**

List **any six (6)** general characteristics of a Typical Rib. **[3]**

**QUESTION 3**

List the carpals bones of the proximal and distal rows respectively. **[4]**

**QUESTION 4**

Compare the Male pelvis and Female pelvis. Provide your answer in table format.

Make use of the following characteristics:

- Bone thickness.
- Acetabula.
- Sacrum.
- Pelvic inlet.

**[10]**

**QUESTION 5**

List and describe the three factors influencing the stability of Joints. **[6]**

**QUESTION 6**

List and define the 3 (three) different modes (ways) of secretory methods. **[3]**

**QUESTION 7**

In a tabular format, compare (similarities) and contrast (differences) the following characteristics of Skeletal Muscle tissue and Smooth Muscle tissue:

- Cell shape
- nucleus number
- nucleus location
- striations
- control

**[5]**

**QUESTION 8**

Provide a well-labelled diagram of the showing the characteristics of epithelium.

**[7½]**

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**SECTION A SUBTOTAL: 50 MARKS**

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**SECTION B**

**QUESTION 1**

Briefly describe the anatomy of the following structures:

- |                                 |     |
|---------------------------------|-----|
| 1.1 Corpus striatum.            | (5) |
| 1.2 The uveal layer of the eye. | (8) |
| 1.3 Ependymal cells.            | (2) |
| 1.4 Lens.                       | (3) |
| 1.5 Medial canthus of the eye.  | (3) |
| 1.6 Auditory ossicles           | (4) |
| 1.7 Hypothalamus.               | (4) |
| 1.8 Choroid Plexus.             | (5) |
| 1.9 The Conjunctiva.            | (3) |

**[37]**

**QUESTION 2**

- |   |     |
|---|-----|
| 2.1 Describe the location and structure of the lateral and third ventricle. | (4) |
| 2.2 Write a short note on Proprioceptors.                                   | (3) |

**[7]**

**QUESTION 3**

Provide a well-labelled diagram showing the visual pathway from the **Retina** up to the **Visual cortex** of the brain.

**[6]**

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**SECTION B SUBTOTAL: 50 MARKS**

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**TOTAL: 100 MARKS**

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